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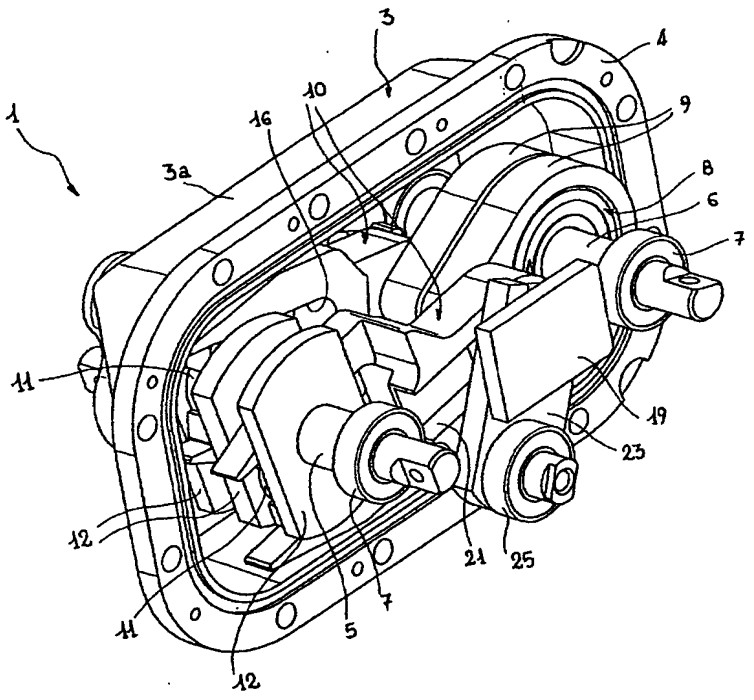
(54) Title: A GEARBOX, PARTICULARLY FOR TRANSMISSION SYSTEMS IN DEVICES FOR METERING GRANULAR MATERIALS



(57) Abstract: A gearbox, particularly for transmission systems in devices (2) for metering granular and/or materials in powder form, comprises a pair of shafts, that is, a drive-input shaft (5) and a drive-output shaft (6), respectively, there being provided on the output shaft (6) at least one pair of coaxial freewheels (8), on each of which an end of a respective linkage (10) carrying a movable fulcrum means is active. The opposite end of each linkage (10) is driven with a reciprocating oscillatory motion about the fulcrum means by means of an eccentric device provided on the drive-input shaft (5) in order to convert the reciprocating oscillatory motion into an intermittent rotary motion of each freewheel (8) and consequently to bring about a rotary motion of the drive-output shaft (6) in a preselected direction of rotation. The drive-input shaft (5) comprises at least one pair of cranks with eccentric pins (11) and each linkage (10) comprises a respective element (13) substantially similar to a connecting rod having a first end (13a) connected kinematically to the corresponding freewheel (8) and a second, opposite end (13b) articulated on the respective pin (11) of the crankshaft (5) with a capability for rotary/translation movement relative to the pin (11).

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